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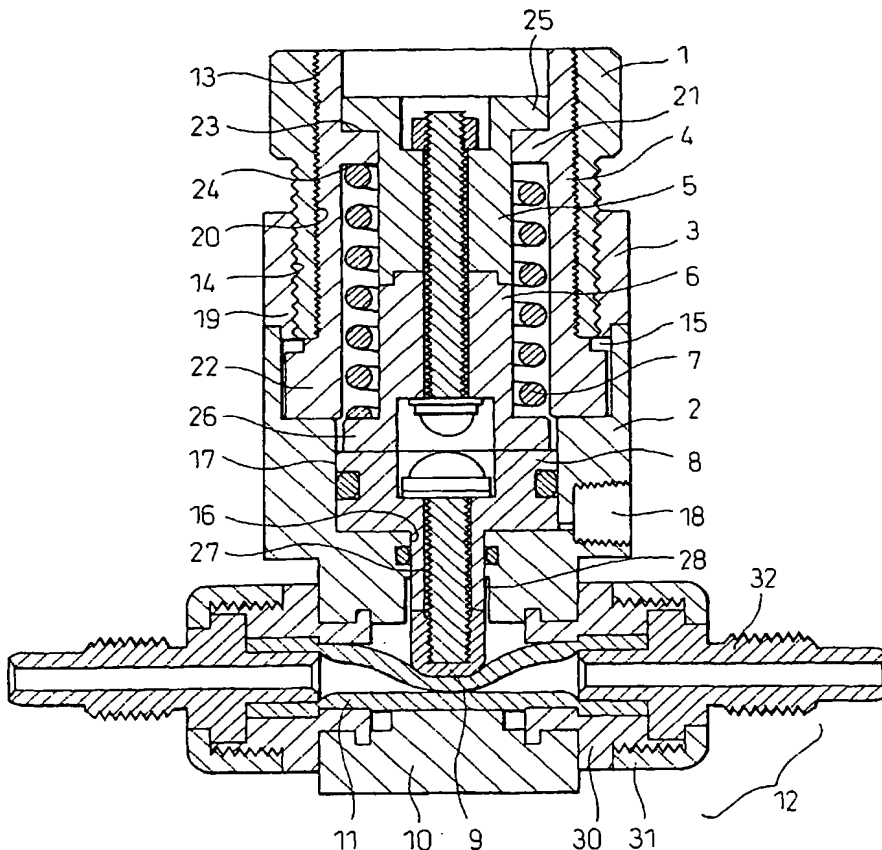
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(54) Title: PINCH VALVE

(54) 発明の名称: ピンチバルブ



(57) Abstract: A pinch valve, comprising a body (10) accepting a pipe body (11), a cylindrical body (2) having an upper cylinder part (17) and a lower handle support part (3), a piston stored in the cylinder part, a pressing element (9) fixed to the piston to press the pipe body, a cylindrical handle (1), a hollow stem (4), and piston retainers (5, 6), the handle further comprising a female thread part and a male thread part having pitches larger than those of the female thread part, wherein the male thread part is threaded to the female thread part formed on the handle support part, the stem having the male thread part threaded to the female thread part of the handle on the outer peripheral surface thereof is stored in the cylindrical body, and the piston retainers are inserted into the stem so that the bottom end face comes into contact with the top end part of the piston and energized to the piston side by a spring.

(57) 要約: ピンチバルブは、管体 (11) を受容する本体 (10) と、上側シリンダー部 (17) と下側ハンドル支持部 (3) とを有するシリンダー本体 (2) と、シリンダー部に収容されたピストンと、管体を押圧するためにピストンに固定された挟圧

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— 国際調査報告書

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

子(9)と、円筒状ハンドル(1)と、中空ステム(4)と、ピストン押さえ(5、6)とを具備する。ハンドルは、雌ネジ部と、雌ネジ部のピッチより大きいピッチの雄ネジ部とを有し、雄ネジ部がハンドル支持部に形成された雌ネジ部に螺合する。ステムは、外周面にハンドルの雌ネジ部に螺合される雄ネジ部を有し、シリンダー本体内に收容されている。ピストン押さえは、下端面がピストンの上端部と接触するようにステム内に嵌挿され、バネによりピストン側へ付勢されている。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/10525

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ F16K7/07

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F16K7/07

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/46648 A1 (Asahi Organic Chemicals Industry Co., Ltd.), 13 June, 2002 (13.06.02), Figs. 15 to 20 & EP 1253360 A1 & JP 2002-372159 A	1-12
P, A	JP 2002-372159 A (Asahi Organic Chemicals Industry Co., Ltd.), 26 December, 2002 (26.12.02), Figs. 1 to 6 & WO 02/103230 A1 & EP 1253360 A1	1-12
A	JP 45-3264 Y1 (T.V. Valve Co., Ltd.), 13 February, 1970 (13.02.70), Full text (Family: none)	1-12

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 18 November, 2003 (18.11.03)	Date of mailing of the international search report 02 December, 2003 (02.12.03)
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Japanese Patent Office

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INTERNATIONAL SEARCH REPORT

International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 7-103396 A (SMC Corp.), 18 April, 1995 (18.04.95), Full text (Family: none)	1-12